

### **Amendments to the Claims**

1. [Original] A gravimetric blender comprising:
  - a. a vertically elongated housing having a transparent panel for operator viewing of blender operation within said housing;
  - b. a material storage hopper removably mounted on said housing, comprising:
    - i. means within the hopper and proximate the hopper bottom for selectively dispensing material within said hopper into said housing; and
    - ii. means connected to said hopper and remaining so upon removal of said hopper from said housing, for actuating said material dispensing means;
  - c. a weigh bin connected to said housing below said hopper;
  - d. means connected to the exterior of said housing for sensing weight of material in said bin; and
  - e. a lower portion of said housing defining a mix chamber below said weigh bin.
2. [Previously Presented] A gravimetric blender comprising:
  - a. a vertically elongated housing having a transparent panel for operator viewing of blender operation within said housing;
  - b. a material storage hopper removably mounted on said housing, comprising:
    - i. means within the hopper and proximate the hopper bottom for selectively dispensing material within said hopper into said housing; and
    - ii. means connected to said hopper and remaining so upon removal of said hopper from said housing, for actuating said material dispensing means;
  - c. a weigh bin connected to said housing below said hopper;

- d. means connected to the exterior of said housing for sensing weight of material in said bin; and
  - e. a lower portion of said housing defining a mix chamber below said weigh bin wherein said panel extends the vertical length of said housing.
- 3. [Original] The blender of claim 1 wherein said housing includes upwardly extending surfaces and said panel defines one of said surfaces.
- 4. [Original] The blender of claim 1 wherein said panel is removable.
- 5. [Original] The blender of claim 3 wherein said panel is removable.
- 6. (Previously presented) A gravimetric blender comprising:
  - a. a vertically elongated housing having a transparent panel for operator viewing of blender operation within said housing;
  - b. a material storage hopper removably mounted on said housing, comprising:
    - i. means within the hopper and proximate the hopper bottom for selectively dispensing material within said hopper into said housing; and
    - ii. means connected to said hopper and remaining so upon removal of said hopper from said housing, for actuating said material dispensing means;
  - c. a weigh bin connected to said housing below said hopper;
  - d. means connected to the exterior of said housing for sensing weight of material in said bin; and
  - e. a lower portion of said housing defining a mix chamber below said weigh bin wherein said housing includes a plurality of upwardly extending surfaces formed integrally of a single piece of material extending the vertical length of said

housing upwardly from said mix chamber to where said hopper is removably mounted thereon.

7. [Previously Presented] A gravimetric blender comprising:
  - a. a vertically elongated housing having a transparent panel for operator viewing of blender operation within said housing;
  - b. a material storage hopper removably mounted on said housing, comprising:
    - i. means within the hopper and proximate the hopper bottom for selectively dispensing material within said hopper into said housing; and
    - ii. means connected to said hopper and remaining so upon removal of said hopper from said housing, for actuating said material dispensing means;
  - c. a weigh bin connected to said housing below said hopper;
  - d. means connected to the exterior of said housing for sensing weight of material in said bin; and
  - e. a lower portion of said housing defining a mix chamber below said weigh bin; wherein said housing includes upwardly extending surfaces which are vertically oriented.
8. [Original] The blender of claim 3 wherein said upwardly extending surfaces are planar.
9. [Previously Presented] A gravimetric blender comprising:
  - a. vertically elongated rectangular frame having a plurality of sides extending substantially the vertical height thereof and defining an open housing, one of said sides affording inspection and access to the housing throughout its height, said frame having a cradle at the top;

- b. a material storage hopper removably mounted on said frame cradle and comprising means within said hopper and proximate the hopper bottom for dispensing material within said hopper;
  - c. a weigh bin positioned within said frame below said hopper;
  - d. means mounted in a load cell box connected to said frame laterally adjacent to said weigh bin for sensing weight of material in said bin by cantileveringly supporting said weigh bin; and
  - e. a mix chamber below said weigh bin.
- 10. [Original] The gravimetric blender of claim 9 wherein said means for dispensing material within said hopper includes a valve and means for actuating said valve, wherein said valve and said valve actuating means are fixedly connected to said hopper.
- 11. [Original] The blender of claim 10 wherein said actuating means is at least partially within said hopper.
- 12. [Previously Presented] The blender of claim 11 wherein said valve is at least partially within said hopper.
- 13. [Original] The blender of claim 10 wherein said actuating means is fully within said hopper.
- 14. [Previously Presented] The blender of claim 11 wherein said valve is fully within said hopper.
- 15. [Original] The blender of claim 9, said frame having four sides with diverging guide flaps projecting upwardly from the top of said sides forming said cradle with an open-top, wherein said hopper with said valve and actuating means affixed thereto is seated in said cradle so as to be manually removable from said housing.

16. [Previously Presented] The blender of claim 9 further comprising a plurality of hoppers, each with valve means therewith defining said means for dispensing material from within said associated hopper into said housing and including respective individual valve actuation means.
17. [Previously Presented] The blender of claim 16 wherein said valve actuation means is pneumatically driven and includes an elongated member for transmitting motion to said valve means.
18. [Previously Presented] The blender of claim 16 wherein said actuation means comprises a piston-cylinder combination connected to a wall of a hopper within which said piston-cylinder combination resides.
19. [Original] The blender of claim 18 further comprising means connected to said frame for selectively contacting and opening said bin to release material in said bin downwardly into said mix chamber.
20. [Original] The blender of claim 19 further comprising an openable portion of said bin, and means to bias said portion to a closed position.
21. [Original] The blender of claim 20 wherein said openable portion is movable about a pivot.
22. [Previously Presented] The blender of claim 21 wherein said openable portion pivots about a horizontal axis.
23. [Original] The blender of claim 19 wherein said means for selectively contacting and opening said bin is pneumatically actuated.
24. [Original] The blender of claim 19 wherein said means for selectively contacting and opening said bin is a piston-cylinder combination.

25. [Original] The blender of claim 24 wherein said cylinder is outboard of said housing.
26. [Previously Presented] The blender of claim 24 wherein said piston moves transversely to an axis about which an openable portion of said bin pivots.
27. [Previously Presented] The blender of claim 20 wherein said bin openable portion has a bin operator to pivot said portion away from said closed position.
28. [Original] The blender of claim 27 wherein said piston contacts said bin operator.
29. [Original] The blender of claim 20 wherein said openable portion is pivotally connected to a remaining, stationary portion of said bin.
30. [Original] The blender of claim 9 wherein said frame is a single piece of material.
31. [Original] The blender of claim 30 wherein said frame is steel.
32. [Original] The blender of claim 30 wherein said frame has three sides, two of which are parallel and perpendicular to the remaining side.
33. [Original] The blender of claim 30 wherein said frame extends vertically upwardly in a straight line from the bottom of said blender to said hopper.
34. [Original] The blender of claim 30 wherein one side of said frame is open.
35. [Original] The blender of claim 30 further comprising an upwardly extending removable panel adapted for fitting together with said frame to provide an enclosure for said weigh bin.
36. [Currently Amended] A gravimetric blender comprising:
  - a. a housing including an upstanding panel;
  - b. a topless openable weigh bin connected to said housing;
  - c. means, facingly connected to said panel of said housing, for sensing weight of material in said bin;

- d. a mix chamber below said bin and connected to said housing, including mixing means therewithin;
  - e. means for selectively opening said bin for releasing material in said bin downwardly into said mix chamber.
37. [Previously Presented] The blender of claim 36 wherein said bin bottom portion includes a sloped openable bottom.
38. [Previously Presented] The blender of claim 36 wherein said bin includes at least two parallel\_sides.
39. [Cancelled].
40. [Cancelled].
41. [Previously Presented] A gravimetric blender comprising:
- a. a vertically elongated frame defining an enclosure having an open side and having an openable bin and a mixer therein;
  - b. a material storage hopper removably mounted on said frame;
  - c. said bin connected to said frame below said hopper;
  - d. means, connected to said frame, for sensing weight of material in said bin as received from said hopper;
  - e. said mixer being below said bin for receiving material therefrom and including rotatable mixing means;
  - f. a vertically elongated window panel adapted for connection with said frame to close said enclosure at the open side, for and disconnection from said frame to open said enclosure;
  - g. drive means supplying rotary motion for said mixer; and

- h. means transferring rotary motion from said drive means to said mixer and operable to disconnect said mixer from said drive means upon disconnection of said panel from said frame.
- 42. [Previously Presented] The blender of claim 41 wherein said means transferring rotary motion from said drive means to said mixing means connects said mixing means to said panel for axial movement of a shaft portion of said rotary motion transferring means unitarily with said panel upon panel disconnection from said frame.
- 43. [Previously Presented] A gravimetric blender comprising:
  - a. a vertically elongated frame having an open side and defining an enclosure having a weigh bin and a mix chamber therein;
  - b. a material storage hopper mounted on said frame;
  - c. said weigh bin connected to said frame below said hopper;
  - d. means, connected to said frame, for sensing weight of material in said bin as received from said hopper;
  - e. said mix chamber below said bin and receiving material therefrom including rotatable mixing means therewithin;
  - f. a vertically elongated panel adapted for connection with said frame to close said enclosure at the open side, and disconnection from said frame to open said enclosure, said panel being transparent;
  - g. drive means supplying rotary motion for said mixing means;
  - h. means transferring rotary motion from said drive means to said mixing means and operable to disconnect said mixing means from said drive means upon disconnection of said panel from said frame; and

- i. means for connecting said panel with said frame.
44. [Previously Presented] The blender of claim 43 including clips for releasably connecting said panel to said frame.
45. (Currently amended) The blender of claim 44 wherein a strap is disposed on the outer side of said panel, and retains said panel in place on said frame via engagement with ~~by~~ said clips.
46. (Currently amended) The blender of claim 44 wherein an axis of ~~mixing means~~ rotary motion of said mixing means is perpendicular to said panel.
47. [Original] The blender of claim 44 further comprising drive means for supplying rotary motion to said mixing means through an arc.
48. [Original] The blender of claim 47 wherein said motion supplied by said drive means is a fixed arc.
49. [Original] The blender of claim 47 wherein said drive means reciprocates said mixing means through said arc in opposite directions.
50. [Original] The blender of claim 47 wherein said arc is less than a full circle.
51. [Original] The blender of claim 47 wherein said arc is greater than a full circle.
52. [Original] The blender of claim 47 wherein said drive means reciprocates said mixing means through arcs which are less than full circles.
53. [Original] The blender of claim 47 wherein said drive means is pneumatically driven.
54. [Cancelled]
55. [Cancelled]
56. [Cancelled]
57. [Cancelled]

58. [Cancelled]
59. [Currently Amended] A gravimetric blender comprising:
- a. a housing defining an openable enclosure and including a plurality of upstanding panel portions;
  - b. a topless bin within said housing enclosure, having an openable bottom;
  - c. means, having said bin removably suspended therefrom and being facingly connected to a panel portion of said housing, for sensing weight of material in said bin;
  - d. a mixer below said bin, within said enclosure and connected to said housing; and
  - e. means connected to a panel portion of said housing for selectively opening said bin for downwardly releasing, within said enclosure, material in said bin to said mixer.
60. (New) A gravimetric blender comprising:
- a. A vertically elongated frame having an at least partly transparent panel closing an open side between other panels and extending substantially the height of the frame;
  - b. A material storage hopper supported by the frame, including means within said hopper for downwardly dispensing material within said hopper into the frame;
  - c. A weigh bin below said hopper, positioned within said panels and connected to the frame;
  - d. Means connected to said frame for sensing weight of material in the weigh bin; and
  - e. A mix chamber below said weigh bin.
61. (New) The blender of claim 60 wherein the panels are rectangular.

62. (New) A gravimetric blender comprising:
- a. A vertically elongated rectangular frame having a rectangularly windowed rectangular panel closing an open side between other rectangular panels and extending substantially the height of the frame;
  - b. A material storage hopper supported by the frame;
  - c. means connected to the hopper for downwardly dispensing material within said hopper into the frame;
  - d. A weigh bin below the hopper, positioned between the panels and connected to the frame;
  - e. Means connected to said frame for sensing weight of material in the weigh bin; and
  - f. A mix chamber below said weigh bin.